

ICS 91.140.60
CCS N 12

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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

CJ/T 133-2001

Replacing CJ/T 133-2007

**Integrated circuit card cold water meter
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

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Foreword

This standard is CJ/T 133-2007 "IC card cold water meter" amendment. This standard compared with CJ/T 133-2007 main technology the changes are as follows.

- Expand the scope of the standard;
- Increased the terms and definitions IC card, delete the test device terms and definitions;
- Modify the general requirements for the classification, the power supply, IC card and deck requirements moved to Chapter 6 and Appendix A;
- Modify the metrological characteristics for the measurement requirements, and added zero flow totalizer readings, rated working conditions, flow profile sensitivity level and other requirements;
- Modify the appearance of the seal for the appearance of inspection requirements and an increase of electronic seal, IC card water meter materials and structural requirements, IC card water meter the adjustment of the test mark and protective devices, testing devices and instructions 6 project requirements;
- Remove the technical characteristics of "other dimensions by the manufacturer's own requirements," the requirements and an increase of IC card water meter flange connection Request
- Increased the requirements of the characteristics of electronic devices, including mechanical and electrical conversion error and the basic functions of the provisions;

- Modify the control and protection functions of the technical requirements;
- Modify the climate and environment, electromagnetic environment, static magnetic field and power requirements;
- Modify the normal working pressure control valve from 0.03MPa to 1.0MPa;
- Modify the protection of the shell protection level technical requirements;
- Modify the IC card water meter controller mean time between failures (MTBF) should not be less than 2.63×10^4 h;
- Complement the type test in 7.8.1, 7.8.2, 7.8.3, 7.10, 7.11.1, 7.15.1 and 7.15.2 provisions of the seven tests completed After the provisions of the electromechanical conversion error test;
- Modify the control functions and protection functions of the test requirements;
- Modify the climatic environment, electromagnetic environment, static magnetic field and power test methods;
- Increased 50mm IC card water meter electric control valve durability test after the allowable leakage;
- Modify the requirements of free fall test;
- Modify the IC card water meter logo technical requirements;
- Added information appendix.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Water Supply and Drainage Products Standardization Technical Committee.

This standard was drafted. Beijing Water Group Beijing Katherine meter limited liability company, Ningbo Meters Co., Ltd., Zhejiang Province measurement Scientific Research Institute, Fuzhou Zhongfu Water Meter Co., Ltd., Shanghai Water Meter Factory, Ningbo East China Sea Instrument Waterway Co., Ltd., Wuxi Water Meter Co., Ltd.

Division, Chongqing Smart Meter Co., Ltd., Suzhou Water Meter Co., Ltd., Shanghai Water Construction Engineering Co., Ltd., Nanjing Weiqi Technology Co., Ltd., Jiangxi Sanchuan meter Co., Ltd., Nanjing Waterworks Corporation meter factory, Shenzhen Hua Xu Technology Development Co., Ltd., Dandong Sikai Electronics Development Co., Ltd., Ningbo Sincere Instrument Co., Ltd., Hangzhou Jing Electronics Co., Ltd., Shenzhen Xingyuan Ding new technology limited the company.

1 Scope

This standard specifies the IC card cold water meter terms and definitions, classification, measurement requirements, technical requirements, test methods, inspection rules, signs, Packaging, transportation and storage.

This standard applies to the temperature level T30, pressure level MAP10, nominal diameter less than or equal to 50mm and commonly used flow Q3 not super Over 16m³/h IC card water meter.

TM card cold water meter can be implemented by reference.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs GB/T 778.1-2007 Closed full pipe flow measurement - Drinking cold water meter and hot water meter - Part 1. Specifications (ISO 4064-1.:2005, IDT) GB/T 778.3-2007 Closed full pipe flow measurement - Drinking cold water meter and hot water meter - Part 3. Test side Law and test equipment (ISO 4064-3.:2005, IDT) GB/T 2423.8 Environmental testing for electric and electronic products Part 2. Test methods Test Ed. Free fall (idtIEC 68-2-32.

1990)

GB 4208-2008 Enclosure Rating (IP Code) (IEC 60529.:2001, IDT) GB 5080.7-1986 Equipment reliability test Constant failure rate under the assumption of failure rate and mean time to failure test Scheme (idtIEC 605-7-1978) GB/T 13384 mechanical and electrical product packaging General technical conditions CJ/T 166 Construction Technology Application of Integrated Circuit (IC) Card JB/T 9329 Instrumentation transport transportation and storage of the basic environmental conditions and test methods General Specifications for SJ/T 11166 Integrated Circuit Card (IC Card) Sockets

3 Terms and definitions

This standard uses the terms and definitions GB/T 778.1-2007 and the following provisions.

IC card cold water meter (hereinafter referred to as IC card water meter) ICcardwatermeter in order to send a cold water meter with water meter as a flowmeter base table, the IC card for the information carrier, the installation of the controller and electronic control valve consisting of A water metering device with a settlement function.

Base table mothermeter Speed meter and positive displacement meter for measuring water.